APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/539,313	03/30/2000	Chung-Ho Huang	LAM1P136/P0602	7930

22434   7590   09/10/2003

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EXAMINER
ENGLAND, DAVID E

ART UNIT	PAPER NUMBER
2143	10

DATE MAILED: 09/10/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)

-- *The MAILING DATE of this communication appears on the cover sheet with the correspondence address* --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *26 June 2003* .

2a)☐ This action is **FINAL.**   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle,* 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-9* is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-9* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11)☐ The proposed drawing correction filed on _____ is: a)☐ approved b)☐ disapproved by the Examiner.

    If approved, corrected drawings are required in reply to this Office action.

12)☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____ .

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

14)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).

    a) ☐ The translation of the foreign language provisional application has been received.

15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)	4) ☐ Interview Summary (PTO-413) Paper No(s). _____ .
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) ☐ Notice of Informal Patent Application (PTO-152)
3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ .	6) ☐ Other: .

DETAILED ACTION

1. Claims 1 – 9 are presented for examination.

Claim Rejections - 35 USC § 103

1.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in
> section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are
> such that the subject matter as a whole would have been obvious at the time the invention was made to a person
> having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the
> manner in which the invention was made.

2.   Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kail (6225901) in

view of Nakamura et al. (6233492) (hereinafter Nakamura).

3.   As per claim 1, Kail teaches a computer implemented method for communicating

between a computing system of a process module, and a first sensor, comprising the steps of:

4.   initializing the computing system of the process module, (e.g. col. 6, line 49 – col. 7, line

20);

5.   transmitting a connect message from the first sensor to the computing system of the

process module, (e.g. col. 6, line 49 – col. 7, line 20);

6.   transmitting a command to get reportable specification from the computing system of the

process module to the first sensor, (e.g. col. 6, line 49 – col. 7, line 59 & col. 7, line 60 – col. 8,

line 57); and

7.   transmitting a reportable specification message from the first sensor to the computing

system of the process module, (e.g. col. 7, line 21 – col. 8, line 28 & col. 7, line 60 – col. 8, line

57). Kail does not teach the process module having a process chamber, initializing the first

sensor, which is able to measure a first parameter in the process chamber. Nakamura teaches the

process module having a process chamber, initializing the first sensor, which is able to measure a

first parameter in the process chamber, (e.g. col. 3, line 35 – col. 4, line 67). It would be obvious

to one skilled in the art at the time the invention was made to combine Nakamura with Kail

because it would be more efficient for the computing system to utilize a network type connection

so the user can operate the sensor and process chamber form different locations in a building.

8.   Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kail (6225901) in

view of Nakamura (6233492) in further view of Steen, III et al. (6510350) (hereinafter Steen) in

further view of Kosugi et al. (6204768) (hereinafter Kosugi).

9.   As per claim 2, Kail and Nakamura do not specifically teach spawning within the

computing system of the process module a connection monitor task;

10.   spawning from the connection monitor task within the computing system of the process

module a first sensor messaging task;

11.   transmitting an acknowledgement of the command to get reportable specification from

the first sensor to the computing system of the process module; and

12.   transmitting an acknowledgement of the reportable specification message from the

computing system of the process module to the first sensor. Steen teaches spawning within the

computing system of the process module a connection monitor task, (e.g. col. 11, line 4 – col. 12, line 21);

13.   spawning from the connection monitor task within the computing system of the process module a first sensor messaging task, (e.g. col. 11, line 60 – col. 12, line 56);

14.   transmitting an acknowledgement of the command to get reportable specification from the first sensor to the computing system of the process module, (e.g. col. 9, line 63 – col. 10, line 29). It would be obvious to one skilled in the art at the time the invention was made to combine Steen with the combine system of Kail and Nakamura because

15.   Steen does not specifically teach transmitting an acknowledgement of the reportable specification message from the computing system of the process module to the first sensor. Kosugi teaches transmitting an acknowledgement of the reportable specification message from the computing system of the process module to the first sensor, (e.g. col. 8, lines 28 – 48 & col. 9, lines 18 – 29). It would be obvious to one skilled in the art at the time the invention was made to combine Kosugi with the combine system of Kail and Nakamura because it would be more efficient for a system to utilize the properties of an acknowledgement signal so in case of a bad transmission the sensor would know that the computing system did or did not get the signal and to retransmit the signal.

16.   Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kail (6225901) in view of Nakamura (6233492) in further view of Steen (6510350) in further view of Kosugi (6204768) in further view of Sandelman et al. (6535123) (hereinafter Sandelman).

17.   As per claim 3, Kail and Nadamura do not specifically teach transmitting command to get

an alarm table command from the first sensor to the computing system of the process module;

18.   transmitting an acknowledgement of the command to get the alarm table from the

computing system of the process module to the first sensor;

19.   transmitting an alarm table from the computing system of the process module to the first

sensor; and

20.   transmitting an acknowledgement of the alarm table from the first sensor to the

computing system of the process module. Sandelman teaches the use of routing tables and router

that are connected to sensor and other networking devices that could be interpreted as

transmitting command to get an alarm table command from the first sensor to the computing

system of the process module, (e.g. col. 3, lines 20 – 65 & col. 8, line 53 – col. 9, line 15);

21.   transmitting an alarm table from the computing system of the process module to the first

sensor, (e.g. col. 3, lines 20 – 65 & col. 8, line 53 – col. 9, line 15). It would be obvious to one

skilled in the art at the time the invention was made to combine Sandelman with the combine

system of Kail and Nakamura because it is common knowledge that when a new router is

installed and turned on, it requests from other networking devices a routing table so to update its

table and route information so to act as an interface to at least one of the sensors that would be

connected to it.

22.   Sandelman does not specifically teach transmitting an acknowledgement of the command

to get the alarm table from the computing system of the process module to the first sensor;

23.   transmitting an acknowledgement of the alarm table from the first sensor to the

computing system of the process module. Kosugi teaches transmitting an acknowledgement of

the command to get the alarm table from the computing system of the process module to the first

sensor, (e.g. col. 8, lines 28 – 48), and Steen teaches transmitting an acknowledgement of the

alarm table from the first sensor to the computing system of the process module, (e.g. col. 9, line

63 – col. 10, line 29). It would be obvious to one skilled in the art at the time the invention was

made to combine Kosugi and Steen with the combine system of Kail, Nakamura and Sandelman

because if the computing system and the first sensor could not acknowledge each others

transmissions the system could accumulate transmission errors and improper updating of the

measurements that the sensor detects.

24.   Claims 4 – 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kail

(6225901) in view of Nakamura (6233492) in further view of Steen (6510350) in further view of

Kosugi (6204768) in further view of Sandelman (6535123) in further view of Halpern

(5301122).

25.   As per claim 4, Kail, Nakamura and Sandelman do not specifically teach transmitting

command to get time and initialization data from the first sensor to the computing system of the

process module;

26.   transmitting time and initialization data from the computing system of the process

module to the first sensor. Halpern teaches transmitting command to get time and initialization

data from the first sensor to the computing system of the process module, (e.g. col. col. 11, lines

13 – 49);

27.   transmitting time and initialization data from the computing system of the process

module to the first sensor, (e.g. col. col. 11, lines 13 – 49). It would be obvious to one skilled in

the art at the time the invention was made to combine Halpern with the combine system of Kail,

Nakamura and Sandelman because of similar reasons stated above and it would be more efficient

in the updating process to have time and initialization data so when the computing system does

attempt to update its information the computing system can compare the two different times and

initialization datas and to determine which ones are the latest versions of information to save.

28.   Halpern does not specifically teach transmitting an acknowledgement of the command to

get time and initialization data from the computing system of the process module to the first

sensor;

29.   transmitting an acknowledgement of the time and initialization data from the first sensor

to the computing system of the process module. Kosugi teaches transmitting an

acknowledgement of the command to get time and initialization data from the computing system

of the process module to the first sensor, (e.g. col. 8, lines 28 – 48), and Steen teaches

transmitting an acknowledgement of the time and initialization data from the first sensor to the

computing system of the process module, (e.g. col. 9, line 63 – col. 10, line 29). It would be

obvious to one skilled in the art at the time the invention was made to combine Kosugi and Steen

with the combine system of Kail, Nakamura, Sandelman and Halpern because of similar reasons

as stated above.

30.   As per claim 5, Kail, Kosugi, Sandelman and Halpern do not specifically teach

transmitting a process related command related to the execution of an action in the process

chamber from the computing system of the process module to the first sensor;

31.   executing the action in the process chamber, wherein said action relates to the processing

of semiconductor related devices; and

32.   transmitting an acknowledgement of the process related command from the first sensor to

the computing system of the process module. Nakamura teaches transmitting a process related

command related to the execution of an action in the process chamber from the computing

system of the process module to the first sensor, (e.g. col. 3, line 35 – col. 4, line 67);

33.   executing the action in the process chamber, wherein said action relates to the processing

of semiconductor related devices, (e.g. col. 3, line 35 – col. 4, line 67). It would be obvious to

one skilled in the art at the time the invention was made to combine Nakamura with the combine

system of Kail, Kosugi, Sandelman and Halpern because it would be more efficient for a system

to remotely have the ability to execute a process to different semiconductor related devices as

opposed to having one computer for every one process chamber.

34.   Nakamura does not specifically teach transmitting an acknowledgement of the process

related command from the first sensor to the computing system of the process module. Steen

teaches transmitting an acknowledgement of the process related command from the first sensor

to the computing system of the process module, (e.g. col. 9, line 63 – col. 10, line 29). It would

be obvious to one skilled in the art at the time the invention was made to combine Steen with the

combine system of Kail, Nakamura, Kosugi, Sandelman and Halpern because of similar reasons

as stated above.

35.   Claims 6 – 9 are rejected for similar reasons as stated above. Furthermore, in reference to

a second and third sensor, Kosugi teaches a second and a third sensor, (e.g. col. 6, lines 3 – 33 &

Figure 1). It would be obvious to one skilled in the art at the time the invention was made to

combine Kosugi with the combine system of Kail, Nakamura, Steen, Sandelman and Halpern

because having more then one or two sensors would make a system gather information from

different locations at a faster pace then having one sensor having to electronically relocate to a

different section of the system to gather information about the system, therefore making the

system more efficient.

Conclusion

36.   Applicant's arguments with respect to claims 1 – 9 have been considered but are moot in

view of the new ground(s) of rejection.

37.   The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

38.   Ebata et al. U.S. Patent No. 6501377 discloses Surveillance system and network system.

39.   Eckel et al. U.S. Patent No. 6138241 discloses Apparatus for and method of inhibiting

and overriding an electrical control device.

40.   Narasimhan et al. U.S. Patent No. 6446192 discloses Remote monitoring and control of

equipment over computer networks using a single web interfacing chip.

41.   Christ U.S. Patent No. 5977913 discloses Method and apparatus for tracking and locating

personnel.

42.   O'Brien et al. U.S. Patent No. 6493756 discloses System and method for dynamically

sensing an asynchronous network event within a modular framework for network event

processing.

43.   van Allen et al. U.S. Patent No. 6411994 discloses Interface system for providing content

using context hotspots.

        Any inquiry concerning this communication or earlier communications from the

examiner should be directed to David E. England whose telephone number is 703-305-5333.

The examiner can normally be reached on Mon-Thur, 7:00-5:00.

        If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David A. Wiley can be reached on 703-308-5221. The fax phone number for the

organization where this application or proceeding is assigned is (703) 872-9306.

        Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is none.

                                        David E. England
                                        Examiner
                                        Art Unit 2143

De

DAVID WILEY
SUPERVISORY PATENT EXAMINER
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